



Unit 17 Denmore Industrial Estate, Denmore Road, Bridge of Don, Aberdeen AB23 8JW

## **User Manual**

### **Pressure Test Stump**

**This Manual Covers the Following Part Numbers:**

**185-3888 HV0**



# User Manual Pressure Test Stump

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## Revision History

Issue, Release Date	Description
Rev A, 22 Mar 12	Initial Issue

### **Safety**

**WARNING:** Trapped air requires considerable time to compress and when it is compressed is highly dangerous. It has enough stored energy to separate parts with considerable force.

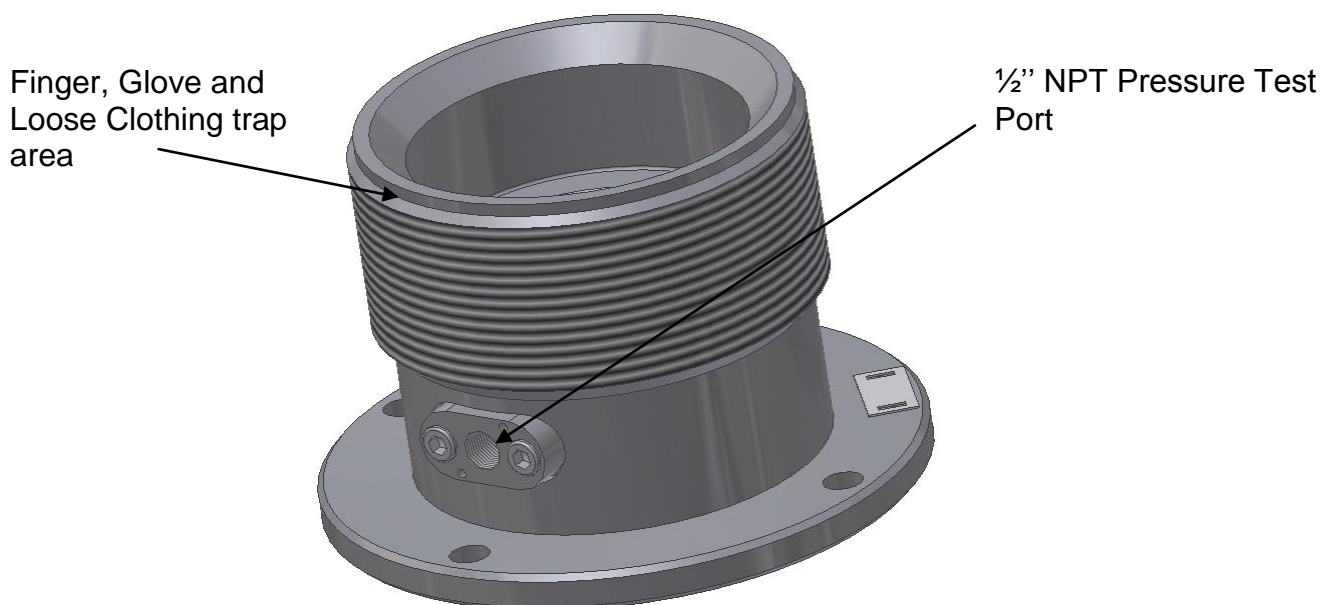
All pressure equipment has a particular pressure rating and care must be taken to ensure that no item is used in a situation that may cause its working pressure to be exceeded.

All personnel involved in pressure testing must be formally trained, and wearing the appropriate PPE.

Safe-Lok devices should be checked for positional security to avoid unnecessary movement of the collar

Ensure the identification band/plate is fitted and is displaying the correct information as per the Tag Sheet/Index

This equipment and the equipment it is attached to is heavy never position yourself below a suspended load



**Figure 1: Pressure Test Stump Safety**



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## 1 Introduction

### 1.1 General

The pressure test stump is used to facilitate pressure testing of equipment

This user manual serves as an introduction to the equipment and contains the relevant specifications, operation, planning and maintenance instructions, parts list and drawings.

### 1.2 Product Identification

Phuel products are identified by a unique serial number that facilitates full product traceability. Each product is supplied with a documentation pack that contains product certification and material/inspection reports. The serial number is always etched on the surface of the product but can sometimes be difficult to find or read after painting. A customer identification number is also included to allow the customer to track the asset in their system.

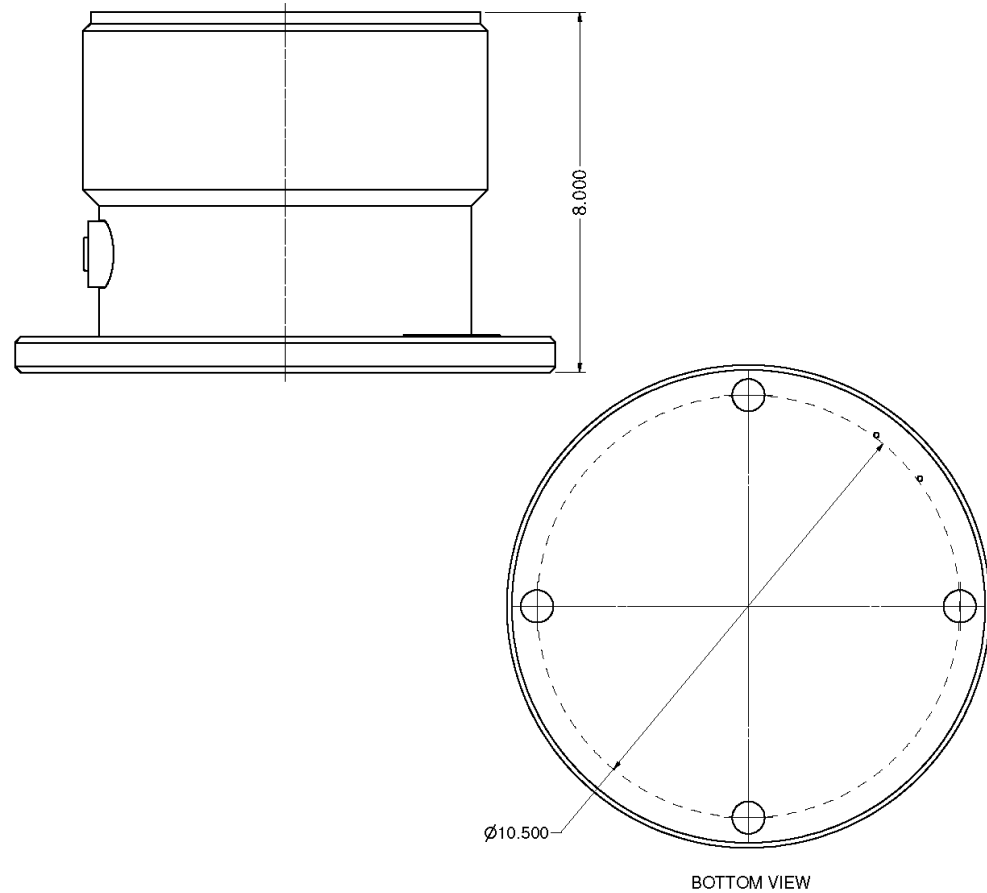
A stainless steel band secures the nameplate tag that is stamped with the information shown below. This tag should be located in the first instance to ensure that this manual refers to the correct equipment.

Phuel Oil Tools Ltd  
Description & Size  
Customer ID No  
Phuel ID No  
MWP & Service  
Test Date

## 2 Technical Specification

Part Number	185-2892
Connection	9"- 4 Acme Type ½" NPT
Maximum Working Pressure	10,000 Psi
Weight	99 lbs/45 kg

**Table 1: Technical Data**



**Figure 2: Pressure Test Stump**

## **3 Technical Description**

The pressure test stump is to be used in conjunction with other pressure test equipment to allow the pressure testing of equipment. The equipment is connected to the test stump via the Acme Type female connector. Pressure equipment with different sized connectors can utilise the test stump within its allowable pressure range by using the appropriate X-Over adaptor.

## **4 Operation**

**All operations to be carried out by suitably qualified and competent personnel**

- Connect appropriate equipment requiring testing to the test stump.
- Ensure all collars, connections and test caps are tight
- Fill with testing fluid and bleed off any air within the system
- Follow test procedures for the equipment under test

### **4.1 Pre Job**

- Ensure thread protectors are fitted
- Check maintenance record sheet and ensure the equipment has been maintained by competent personnel
- Check all certification is in date
- Confirm information band is fitted and correct
- Ensure equipment is suitable for the maximum working pressures and services involved
- Ensure threads are clean
- Inspect for signs of damage
- Pressure test to 1.2x the maximum well pressure
- Ensure all connections are tight

### **4.2 During Job**

- Avoid excessive movement

### **4.3 Post Job**

- Inspect for signs of damage and report any findings
- Ensure threads are cleaned and the re-greased
- Ensure thread protectors are fitted

## 5 Maintenance

**All maintenance to be carried out by suitably qualified and competent personnel**

### 5.1 Introduction

Regular maintenance of the equipment using Phuel redress kits or Phuel approved parts is essential to its continued safe operation. Ensure that the pre and post job operating procedures are followed and that maintenance records are kept.

### 5.2 Schedule

The maintenance schedule may be governed by international or company standards and the following is considered to be the minimum requirements.

#### 5.2.1 Pre & Post Job

Refer to Section 4.1 and Section 4.3 for details

#### 5.2.2 Yearly

- Inspect the condition of all sealing surfaces and surface coatings
- Re-coat threads and sealing surfaces if necessary. If in doubt contact Phuel Oil Tools Ltd
- Regrease components
- Pressure test to maximum working pressure in accordance to testing procedure (see 6)
- Inspect paint work and repair as necessary

#### 5.2.3 Five Yearly

- Yearly Maintenance (plus the following)
- Carry out 100% surface NDE on all surfaces
- Pressure test to test pressure witnessed by certifying authority

### 5.3 Safety

- Many of the components are heavy and should not be lifted without lifting aids.
- Ensure all pressure testing is carried out in the appropriate testing area by suitably qualified personnel.
- Wear appropriate personal protective equipment.
- Do not over exert yourself while using torque wrenches. Use appropriate mechanical advantages when available.





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- Ensure that all tools and equipment are in good condition and are suitable for the intended use.
- Clear up any fluid spills immediately to avoid slips.

### 5.4 Maintenance Record Sheet

Date Performed	Type of Maintenance	Performed By	Verified By	Comments

Table 2: Maintenance Record

## 6 Testing

**All testing is to be carried out in the designated test area and by suitably qualified and competent personnel.**

**WARNING: Trapped air requires considerable time to compress and when it is compressed is highly dangerous. It has enough stored energy to separate parts with considerable force.**

- Fit appropriate test caps and blanking plugs
- Fill with testing fluid bleeding off any air within the system
- Apply a pressure of 500 psi and ensure pressure holds for a minimum of 10 minutes
- Increase pressure to Maximum Working Pressure, allow to stabilise and maintain this pressure for a minimum of 15 minutes ensuring there are no apparent leaks. (Testing to be carried out to Test pressure when decreed by maintenance schedule)
- Bleed off pressure, drain test fluid and dry
- Remove test caps
- Apply coating of de-watering solution to protect the bore and threads
- Fit thread protectors

On completion of all maintenance ensure the maintenance record sheet (Para 5.4) is completed

## 7 Parts List and Drawings

Item Number	Part Number	Quantity	Description
1	185-3905-480	1	TEST STUMP 9-4 C/W SAVERSUB
2	145-2176-480	1	SAVER SUB PORT
3	801-0119-V90	1	O-Ring - B.S Size 119
4	SHC-0583-3A4	2	Soc Hd Cap 1/2 UNC Length 3/4 in
5	WNL-0580-316	2	WASHER NORDLOCK (M12)
99	910-3370-N66	1	FEMALE PROTECTOR (DW) 9-4 ACME

Table 3: Parts List 185-3888-HV0

**Note:** Thread protectors (item 99) not shown on Assembly Drawing (Figure 3)

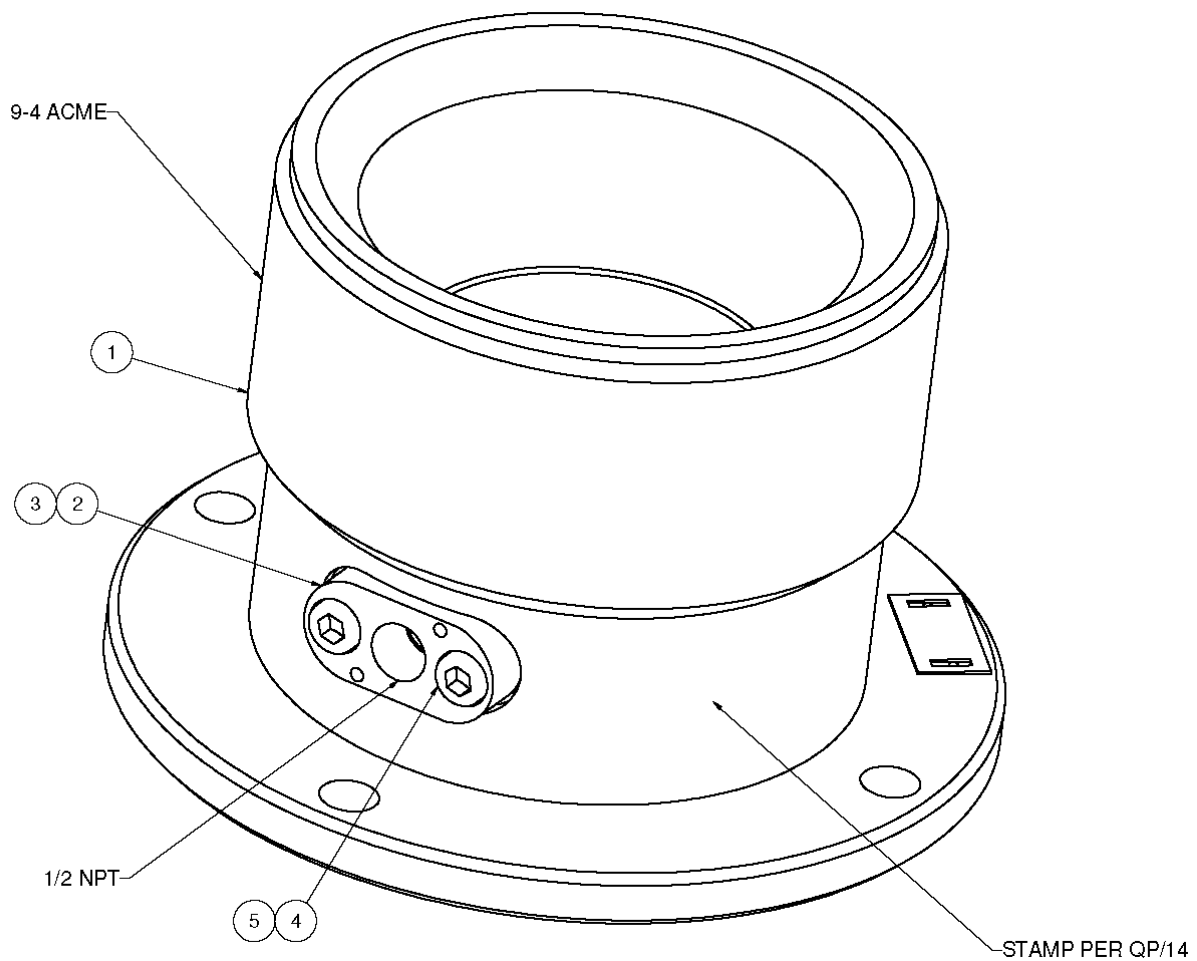


Figure 3: Test Stump 185-3888 HV0